



Quality and Service
B.O. 38144 VITEAZU NO.13
4700 ZILAU
ROMANIA

MILL TEST CERTIFICATE
ACCORDING TO EN 10204.1.1.9

DATE: 11.02.2002
ORDER NO.: PO 147030
SILCOTUB SA
VIA SAUTETS
6965 LUNDON
SWITZERLAND

ASTM A 106/199; ASTM A 53/579;

SPECIFICATION: ASTM A 106/199; ASTM A 53/579;

MATERIAL: GRADE B

WAGON NO.:
SWAP BODY NO.:
TRUCK NO.:

No. 5

No.	SIZE	HEAT NUMBER	NUMBER OF PIECES	NUMBER OF FIBRES	LENGTH IN METERS	WEIGHT IN MT	NUMBER OF BUNDLES	ITEM	LOT
1	3" X 0.216 (88.90 X 5.49 mm)	32448	76	728	4423.688	49.823	38	5	
		33387	171						
		33435	178						
		33434	76						
		33434	190						
		33388	95						

DESCRIPTION: 198.714MT OF SEAMLESS STEEL TUBING ORDER CONFIRMATION 147030 (DUFERCO REF.NO. 147030)

No.	HEAT	Sample no.	CHEMICAL COMPOSITION %										OTHER TESTS			Mechanical	Non-destructive	
			C	Mn	Si	P	S	Cr	Ni	Mo	Cu	V	Flaming	Bending	Flaking			Hardness
1	32410	36795	0.175	0.583	0.291	0.017	0.007	0.144	0.129	0.011	0.185	0.005	GOOD	-	-	-	2800	-
	32410	36796	0.175	0.580	0.290	0.017	0.007	0.143	0.130	0.011	0.185	0.005	GOOD	-	-	-	2500	-
2	32448	36793	0.175	0.571	0.292	0.017	0.008	0.140	0.127	0.011	0.184	0.005	GOOD	-	-	-	2500	-
	32448	36794	0.176	0.567	0.288	0.018	0.008	0.141	0.127	0.011	0.183	0.005	GOOD	-	-	-	2500	-
	33387	36797	0.177	0.585	0.280	0.009	0.005	0.116	0.117	0.010	0.217	0.005	GOOD	-	-	-	2600	-
	33387	36798	0.176	0.561	0.280	0.009	0.005	0.116	0.118	0.010	0.217	0.005	GOOD	-	-	-	2600	-
	33435	36801	0.184	0.561	0.270	0.011	0.007	0.181	0.164	0.012	0.204	0.005	GOOD	-	-	-	2600	-
	33435	36802	0.170	0.560	0.271	0.011	0.008	0.181	0.164	0.012	0.205	0.005	GOOD	-	-	-	2600	-
	33434	36804	0.170	0.564	0.271	0.011	0.008	0.181	0.164	0.011	0.203	0.005	GOOD	-	-	-	2600	-
	33389	36805	0.172	0.564	0.273	0.010	0.005	0.142	0.117	0.010	0.219	0.005	GOOD	-	-	-	2600	-
	33389	36806	0.171	0.581	0.274	0.010	0.005	0.113	0.117	0.010	0.221	0.005	GOOD	-	-	-	2600	-

No.	HEAT	Sample no.	Dimensions Inch x Inch	Section Inch	Length Inch	Tensile Strength		Yield Strength		Elongation		Charpy V-notch			TEMP.	SHEAR
						Required	Result	Required	Result	Required	Result	1	2	3		
1	32410	36795	0.76 x 0.22	0.17	2.00	60000	74415	35000	52010	22.00	32.10	1	2	3	Average	
	32448	36793	0.77 x 0.22	0.17	2.00	60000	70867	35000	48843	22.00	31.10	1	2	3	Average	
2	33387	36797	0.77 x 0.22	0.17	2.00	60000	73184	35000	50571	22.00	34.30	1	2	3	Average	
	33435	36801	0.78 x 0.22	0.17	2.00	60000	74204	35000	49706	22.00	31.80	1	2	3	Average	
	33434	36803	0.78 x 0.22	0.17	2.00	60000	72603	35000	46841	22.00	36.20	1	2	3	Average	
	33388	36805	0.75 x 0.21	0.16	2.00	60000	75581	35000	48183	22.00	33.30	1	2	3	Average	

WEIGHT: 198.714 MT
CERTIFY THAT THE ABOVE DESCRIBED MATERIALS WITH THE ORDERED DIMENSIONS AND COMPOSITION ARE THE PROPERTY OF THE COMPANY

SIGNATURE: [Signature]
QUALITY DEPT. CHIEF
ING. TIBERIU EROEI

